

# Chapter 6: The VOMRS Web User Interface

The client portion of VOMRS is a web user interface (web UI) to a database, and as such, the majority of its screens allow you to enter query criteria, select output fields and submit your query. After a query is processed, its result is appended to the bottom of the screen. Some of the screens are informational only. Many of the screens include help text in green. All the terms used to identify database fields and menu options are defined via pop-up help text upon mouseover. Your VO administrator may customize some features of the screens, e.g., VO-specific screen headings, via a configuration file.

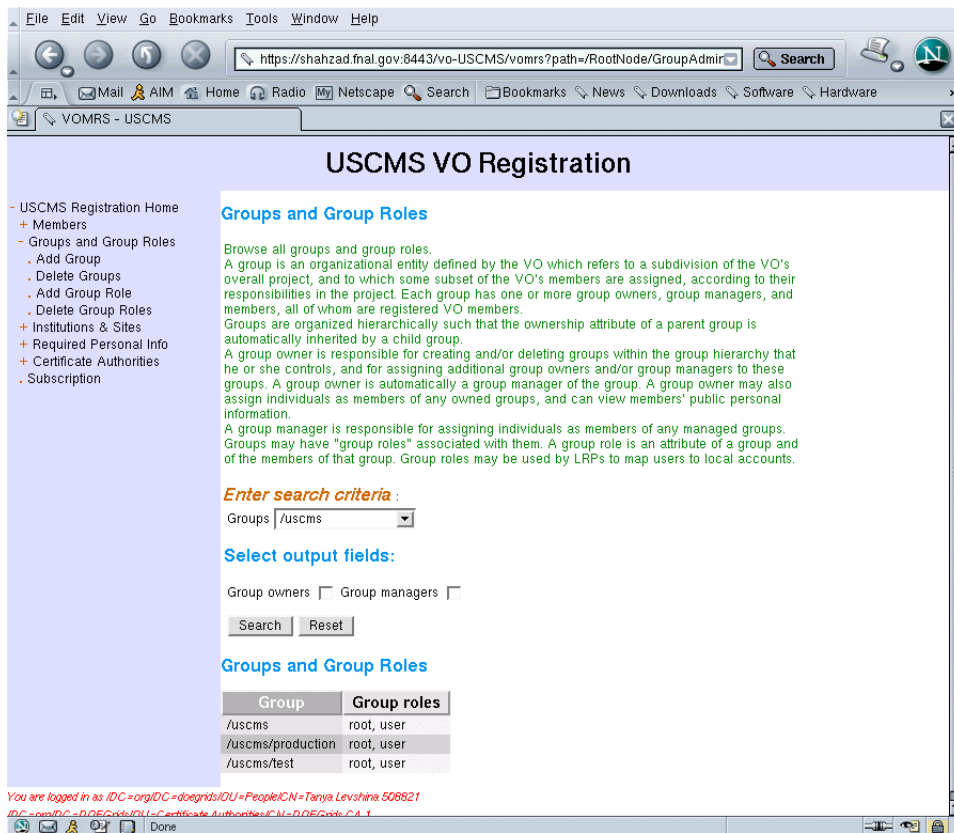


The sample screens included in this manual come from the development and test systems. They refer to the USCMS VO and display test data.

## 6.1 The VOMRS Window Components

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At the center top of all screens is the VO-Specific VOMRS service identifier, e.g., **My VO Registration**. Down the left-hand side is an explorer-style, expandable menu of operations the user can perform. The length and contents of this menu varies according to the user's status and roles in the VO. At the very bottom of the screen, in red, is the user's DN and CA. In the main, white area of the screen the main content of the screen is displayed. The content may consist of informational text, help text, data entry and/or query fields, and/or query results.



The items on the left-hand menu consist of two clickable portions: the text of the menu option, and the plus (+), minus (-) or period (.) sign preceeding it. When you click the text, you are brought to the option's corresponding screen. As for the sign in front of it:

- USCMS Registration Home
- + Members
- + Groups and Group Roles
- + Institutions & Sites
- + Required Personal Info
- + Certificate Authorities
- Subscription

- A plus sign (+) indicates that there is a submenu for the corresponding menu item; click the plus sign to expand it.
- A minus sign (-) indicates that the submenu for the corresponding item is expanded; click the minus sign to retract it.
- A period (.) indicates that there is no submenu for the corresponding menu item.

## 6.2 Screen Types and their Functions

There are four basic types of screens in the VOMRS web UI:

- informational
- query-only
- query and edit data
- data entry

In this section we describe the features and functionality that all applicants and members will need to understand. Additional features found in pages that can only be accessed by members with administrative roles are deferred to Chapter 10: *Administrative Query and “Select Attribute” Screens*.

## 6.2.1 Informational Screens

An example of a strictly informational page is the **Welcome** page. The menu option **Registration Home** points to it. This page describes what the service is used for and familiarizes new users with the process of registering with the VO. To perform any operation, you must choose a different option from the menu at the left of the screen (not shown here).

### Welcome to the USCMS VO Registration Service!

This site is used for registering USCMS grid resource users and for managing information about their affiliation with USCMS and their permissions regarding use of the grid resources. Before you apply for membership in USCMS, you are required to read and agree to Rules for Use of [the LCG](#). Upon registering, you become an applicant to USCMS. Once your registration is accepted, you become a member of USCMS. VO Administrators may grant you administrator rights, as appropriate.

**Applicants** to USCMS may:

- Browse your personal information
- Change your personal information
- Add a separate email address to receive subscription notifications
- Browse your registration status
- Browse groups
- Browse institutions and sites
- Browse required personal information
- Browse CAs recognized by USCMS
- Unsubscribe and resubscribe to personal event notification

Registered USCMS **members** may: do everything an applicant can do, as listed above, plus

- enter additional DNS
- select different primary DN
- delete DNS

Additional functions reserved for approved USCMS **Administrators** :

- Add, change, delete information for members, groups, institutions, sites, CAs

Help about the site can be found [here](#)

### Required personal info

Name	Private
Email	N
First name	N
Last name	N
Phone	N

The **Required Personal Info** screen is another example of an informational page (for most users, that is). A member with the role of VO administrator (see section 11.2 *VO Administrator*) can change information in the database via this screen; everyone else can only browse it.

## 6.2.2 Query-Only Screens

There are screens on which users can query the database to browse information, but on which they cannot add, delete or edit any information. An example of this type of screen is **Institutions & Sites**.

### Institutions & Sites

Search the institutions registered in USCMS. Some subset of the institutions may also be grid sites, meaning they provide grid computing resources. These institutions are marked as "yes" in the "Is site" output field.

If you search on a particular institution and you check "Search on sites only", you will get output only if the institution is a site. It's better to leave the institution field blank when trying to get information about sites only.

For an institution which is not a site (marked as "no" in the "Is site" output field), the only information displayed is the institution name. A site may require extra personal information (in addition to that required for USCMS membership) before allowing an individual's grid jobs to be processed by the local computing resources. You can choose to display the site-specific required personal information, the site administrators, and/or the local resource providers in the output.

Enter search criteria :

Institution

Search on sites only ☒

Select output fields:

Site administrators ☒ Local resource providers ☒ Is site? ☒ Required personal info ☒

If you leave the **Institution** field left blank and **Search on sites** checked, you are requesting information on all the member institutions that are grid sites. Given that all the output fields are selected, the sample results look like the following:

Enter search criteria :

Institution

Search on sites only ☒

Select output fields:

Site administrators ☒ Local resource providers ☒ Is site? ☒ Required personal info ☒

### Results

Site administrators	Local resource providers	Is site?	Required personal info	Institution
/DC=org/DC=doegrids/OU=People/CN=Leigh Grundhoefer 952831, /DC=org/DC=DOEGrids/OU=Certificate Authorities/CN=DOEGrids CA 1;		Yes	Email, Phone	Boston University
/O=Grid/O=Globus/OU=fnal.gov/CN=Tanya Levshina, /C=US/O=Globus/CN=Globus Certification Authority;		Yes	First name, Last name, Email, Phone	Fermi National Accelerator Laboratory

## 6.2.3 Query-and-Edit Data Screens

A query-and-edit page allows you to do just that: query the database to retrieve the information of interest, then edit the information as necessary. It does not allow you to add new database records, you may only change values in existing fields. A commonly used example of this type of page is the **Edit Personal Info** page.

### Edit Personal Info

As a USCMS VO member, you may view and edit your own information only. Select the fields you wish to display, click Search, then edit them as necessary. VO administrators may query personal information on members for whom they have permissions to do so. Enter your search criteria, select the fields you wish to display, click Search, then edit them as necessary.

#### Enter search criteria :

DN	<input type="text"/>
CA	<input type="text"/>
First name	<input type="text"/>
Last name	<input type="text"/>
Email	<input type="text"/>
Phone	<input type="text"/>
Status	<input type="text"/>
Roles	<input type="text"/>
Rights	<input type="text"/>
Institutions	<input type="text"/>
Representative DN	<input type="text"/>
Representative CA	<input type="text"/>

#### Select output fields:

First name	<input checked="" type="checkbox"/>	Last name	<input checked="" type="checkbox"/>	Email	<input checked="" type="checkbox"/>	Phone	<input checked="" type="checkbox"/>	Member DN	<input type="checkbox"/>
Member CA	<input type="checkbox"/>	Institution	<input type="checkbox"/>	Status	<input type="checkbox"/>	Roles	<input type="checkbox"/>	Rights	<input type="checkbox"/>
Rep DN	<input type="checkbox"/>	Rep CA	<input type="checkbox"/>						
<input type="button" value="Search"/> <input type="button" value="Reset"/>									

In this example we input enough information to uniquely identify an individual (a member with no administrative roles can see only his own information, and can thus leave the selection criteria blank), accept the default output fields as checked, submit the query, and a result like the following displays:

### Results

#### Choose/modify desired result:

First name	Last name	Email	Phone
<input type="text" value="Anne"/>	<input type="text" value="Heavey"/>	<input type="text" value="aheavey@fnal.gov"/>	<input type="text" value="630-840-8039"/>
<input type="button" value="Submit"/> <input type="button" value="Cancel"/>			

Notice that the output fields are editable. When you're finished with your edits, submit the changes to update the database.

## 6.2.4 Data Entry Screens

A data entry page has no querying feature, the only fields that appear are data entry fields. These pages are intended for adding new information to the database, not for retrieving records to browse or edit.

The most commonly used data entry page is the **Registration** page, used for submitting an application for VO membership by or on behalf of an individual associated with the VO's project.

The screenshot shows a Netscape browser window with the address bar displaying a URL from the FNL.gov domain. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The page title is "USCMS VO Registration". On the left, a navigation menu lists: USCMS Registration Home, Registration, Groups and Group Roles, Institutions & Sites, Required Personal Info, and Certificate Authorities. The main content area is titled "Registration" and contains a welcome message, instructions, and a form. The form includes fields for First name, Last name, Email, and Phone, a dropdown for Select institution (set to Boston University), a dropdown for Select representative (set to /DC=org/DC=doegrids/OU=People/CN=Yujun Wu 167397), and a dropdown for Grid job submission rights (set to full). At the bottom of the form are two buttons: "I have read and agree to LCG Usage Rules. Click to register" and "Cancel". A status bar at the bottom of the browser window shows the user is logged in as /DC=org/DC=doegrids/OU=People/CN=Tanya Levshina 508821.

USCMS VO Registration

**Registration**

Welcome to the USCMS VO user registration page. Before you fill out this form to apply for membership in USCMS, you are required to read Rules for Use of *the LCG*. Submission of the following registration form implies your agreement to abide by these rules, and for legal purposes is regarded as your signature to this agreement.

All fields on this page are required. After you fill out the form and click Register, you become an applicant to USCMS VO. Your selected representative will be required to approve the correctness of the information you provide here and your USCMS affiliation. Once you're approved, you become a member of the USCMS VO. You will automatically receive email when your status or other information changes via the subscription service. To learn more about this service, first complete your registration, then visit the Subscription link. If you plan to submit jobs to the grid, select "full" as "Grid job submission rights". If you will not be running grid jobs, but rather performing administrative tasks, select "limited". If you will be doing both, select "full".

**Personal Information**

First name:

Last name:

Email:

Phone:

Set notification email:

Select institution:

Select representative:

Grid job submission rights:

You are logged in as /DC=org/DC=doegrids/OU=People/CN=Tanya Levshina 508821  
/DC=org/DC=DOEGrids/OU=Certificate Authorities/CN=DOEGrids CA 1

There is a button for submitting the application (called **Click to register**), but there is no feature for submitting a query.